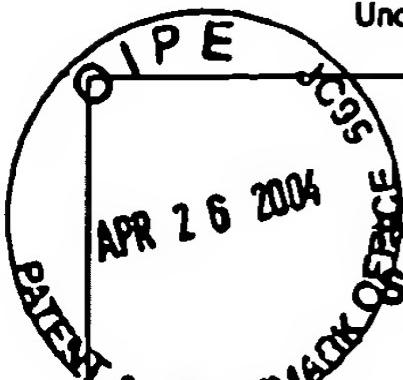


Please type a plus sign (+) inside this box

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



Substitute for Form 1449A/PTO
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(use as many sheets as necessary)

Sheet

1

of

2

Complete If Known	
Application Number	10/659,908
Filing Date	09/11/2003
First Named Inventor	Anand G. Dabak, et al.
Group Art Unit	-3681-2637
Examiner Name	-TBD- J CORRIELOS
Attorney Docket No.	TJ-28441B

U.S. PATENT DOCUMENTS					
Exam. Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Doc.	Date of Pub. of Cited Doc. (mm-dd-yyyy)
		Number	Kind Code ² (if known)		
DW	AA	5,329,547		Ling	07/12/1994
	AB				
	AC				
	AD				
	AE				
	AF				
	AG				
	AH				
	AI				
	AJ				
	AK				
	AL				
	AM				
	AN				
	AO				

FOREIGN PATENT DOCUMENTS						
Exam. Initials ⁴	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Doc.	Date of Pub. of Cited Doc. (mm-dd-yyyy)
		Office ³	Number ⁴	Kind Code ² (if known)		
DW	BA		EP 0 767 546 A2		AT&T Corp.	09/04/1997
	BB					
	BC					
	BD					
	BE					
	BF					
	BG					
	BH					
	BI					
	BJ					

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

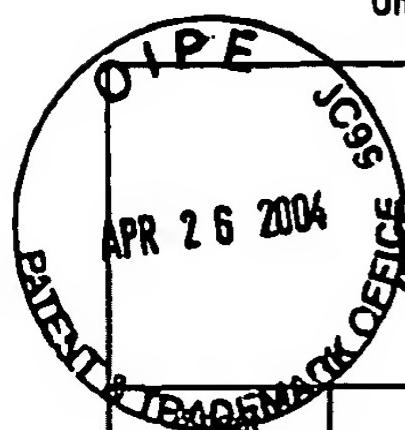
¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, VA 22313-1450.

Please type a plus sign (+) inside this box

Approved for use through 10/31/2002 OMB 0651-0031
 Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



Substitute for Form 1449A/PTO
INFORMATION DISCLOSURE STATEMENT BY APPLICANT
 (use as many sheets as necessary)

2

of

2

Complete If Known	
Application Number	10/659,906
Filing Date	09/11/2003
First Named Inventor	Anand G. Dabak, et al.
Group Art Unit	4684-2637
Examiner Name	TBD - T. LORRIEWS
Attorney Docket No.	TI-28441B

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Exam. Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
X	CA	"A Simple Transmit Diversity Technique for Wireless Communications", IEEE Journal on Selected Areas in Communications, IEEE Inc. New York, US, vol. 16, no. 8, October 1998, pp. 1451-1458, XP002100058, ISSN: 0733-8716	
LL	CB	"Channel Estimation Using Time Multiplexed Pilot Symbols for Coherent Rake Combining for DS-CDMA Mobile Radio", Personal, Indoor and Mobile Radio Communications, 1997. Waves of the Year 2000. PIMRC '97., The 8th IEEE International Symposium on Helsinki, Finland 1-4 Sept. 1997 New York, NY, USA, IEEE, US 1/09/1997, pp. 954-958, XP010247589, ISBN: 0-7803-3871-5	
LL	CC	"New Detection Schemes for Transmit Diversity with no Channel Estimation", Tarokh, V., et al., Universal Personal Communications, 1998. ICUPC '98. IEEE 1998 International conference on Florence, Italy, 5-9 Oct. 1998, New York, NY, USA, IEEE, US 5/10/1998, pp. 917-920, XP010315028, ISBN: 0-7803-5106-1	
CD			
CE			
CF			
CG			
CH			
CI			
CJ			
CK			
CL			
CM			
CN			
CO			
CP			
CQ			
CR			

Examiner Signature	<i>Ch. Barile</i>	Date Considered	6-2-05
--------------------	-------------------	-----------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, VA 22313-1450.

Please type a plus sign (+) inside this box +

Approved for use through 10/31/2002. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for Form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete If Known	
Sheet	1	of	2	Application Number	10/659,906
				Filing Date	09/11/2003
				First Named Inventor	Anand G. Dabak
				Group Art Unit	2031 2637
				Examiner Name	Jean Corrielus
				Attorney Docket No.	TL-28441B

U.S. PATENT DOCUMENTS						
Exam. Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Doc.	Date of Pub. of Cited Doc. (mm-dd-yyyy)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
AN	AA	5,228,054		Rueth, et al.	07/13/1993	
	AB	5,581,580		Lindbom, et al.	12/03/1996	
	AC	5,737,327		Ling, et al.	04/07/1998	
	AD	5,912,931		Matsumoto, et al.	06/15/1999	
	AE	6,137,843		Chennakeshu, et al.	10/24/2000	
	AF	6,185,258 B1		Alamouti, et al.	02/06/2001	
	AG	60/099,212		AT&T Corp.	09/04/1998	
	AH					
	AI					
	AJ					
	AK					
	AL					
	AM					
	AN					
	AO					

FOREIGN PATENT DOCUMENTS							
Exam. Initials ³	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Doc.	Date of Pub. of Cited Doc. (mm-dd-yy)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Office ³	Number ⁴				
AN	BA		WO 99/14871	AT&T Wireless Services Inc.	25/03/1999	—	
	BB		WO 00/14921	AT&T Corp.	16/03/2000	—	
	BC		WO 99/23766 A2	AT&T Wireless Services Inc.	14/05/1999	—	
	BD		WO 99/23766 A3	AT&T Wireless Services Inc.	14/05/1999	—	
	BE						
	BF						
	BG						
	BH						
	BI						
	BJ						
	BK						
	BL						

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

Please type a plus sign (+) inside this box

Approved for use through 10/31/2002. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for Form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete If Known	
Sheet	2	of	2	Application Number	10/659,908
				Filing Date	09/11/2003
				First Named Inventor	Anand G. Dabak
				Group Art Unit	2631 2637
				Examiner Name	Jean Corrielus
				Attorney Docket No.	TI-28441B

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Exam. Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA		
	CB		
	CC		
	CD		
	CE		
	CF		
	CG		
	CH		
	CI		
	CJ		
	CK		
	CL		
	CM		
	CN		
	CO		
	CP		
	CQ		
	CR		

Examiner Signature	<i>Chy Boniles</i>	Date Considered	<i>6/2/05</i>
-----------------------	--------------------	--------------------	---------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.